

# MULTIPLE-FREQUENCY ANTENNA STRUCTURE

## Abstract

A multiple-frequency antenna includes a feed-line and a first radiating element electrically connected to the feed-line. A tuning element is electrically connected to the first radiating element. The tuning element contains at least two stubs, each stub having a fixed end connected to the first radiating element and a free end spaced apart from each other. The first radiating element and the tuning element serve to generate a first and a third operating frequency of the multiple-frequency antenna. The antenna also includes a second radiating element electrically connected to the feed-line, the second radiating element serving to generate a second operating frequency of the multiple-frequency antenna.